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ABSTRACT OF THE DISCLOSURE

A portable computer system has a light emitting diode (LED) indicator including multiple LEDs to display a power-on self-test (POST) state and an operating state of the computer system. When the portable computer system performs a POST process during system boot, the LEDs of the LED indicator are lighted in response to each step of the POST process. If any error is detected in the POST process, the POST process is stopped with lighting LEDs. The lighting state of the LED indicator indicates where the error has occurred in the computer system, so that a user can verify which element of the computer system has an error, without additionally adding a POST card to the computer system.